

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/057165 A3

(51) International Patent Classification⁷: **G06F 19/00**

(21) International Application Number:
PCT/US2004/040298

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/527,455 5 December 2003 (05.12.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

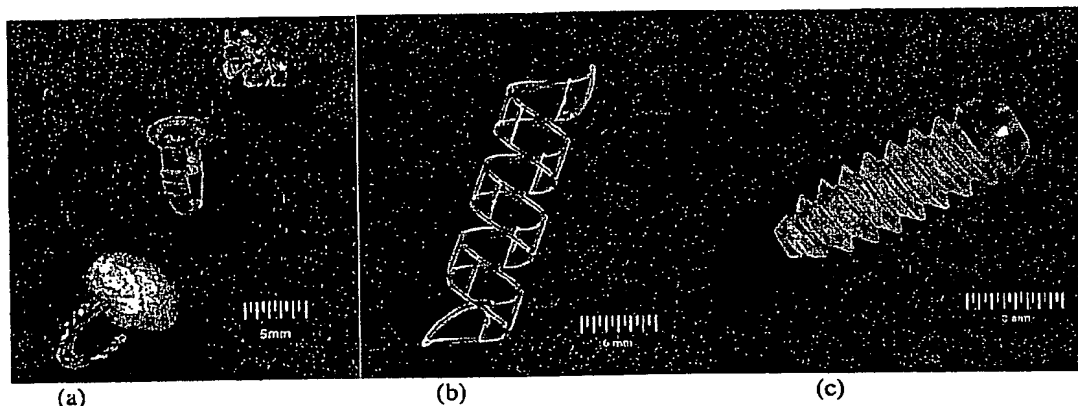
Published:

— with international search report

(88) Date of publication of the international search report:
9 September 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BIODEGRADABLE/BIORESORBABLE TISSUE AUGMENTATION/RECONSTRUCTION DEVICE



(57) Abstract: A method of manufacturing biodegradable/bioresorbable tissue augmentation/reconstruction devices by defining material density distributions at selected time points during a material degradation lifecycle. These different density distributions are then superposed using general linear and/or nonlinear functions that could include both time and degraded base stiffness weighting factors. The material density distribution may be created using topology optimization, image-based design or computed aided design methods to create a degradable device that retains sufficient physical properties (ie modulus, strength, electrical conductivity, thermal conductivity) through the material degradation lifecycle process. Thus, any bulk degrading material can be designed using this process for any tissue augmentation/reconstruction application.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/40298

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 19/00 US CL : 700/98, 120; 703/11; 45/69; 424/423 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 700/98, 120; 703/11; 45/69; 424/423 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/0175321 A1 (SAPIESZKO et al.) 18 September 2003 (19.09.2003), Whole Document.	1-20
A	US 2003/0108587 A1 (ORGILL et al.) 12 June 2003 (12.06.2003), Whole Document.	1-20
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Date of the actual completion of the international search 25 May 2005 (25.05.2005)		Date of mailing of the international search report 14 JUN 2005
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